Date: Thu, 30 Sep 93 14:43:57 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1159
To: Info-Hams

Info-Hams Digest Thu, 30 Sep 93 Volume 93 : Issue 1159

Today's Topics:

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 29 Sep 1993 21:53:52 +0000
From: library.ucla.edu!agate!howland.reston.ans.net!newsserver.jvnc.net!udel!news!
demon!llondel.demon.co.uk!dave@network.ucsd.edu
Subject: Alinco 580, UHF Tx
To: info-hams@ucsd.edu

In article <38206@suned1.Nswses.Navy.MIL> kss@spc2ed0.nswses.navy.mil writes:
>
>I am looking for information to Mod a 580 to transmit in the 435-438 MHz
>for Sat communications. Any help would be appreciated. Why didn't Alinco
>or many other HTs have this as the norm? %-]
>
Erk? My 580 does 430-440 TX as standard........

Dave
--

****
* G4WRW @ GB7WRW.#41.GBR.EU AX25 * Start at the beginning. Go on *

* dave@llondel.demon.co.uk Internet *
* g4wrw@g4wrw.ampr.org   Amprnet *
*   until the end. Then stop.   *
*   (the king to the white rabbit) *
****

Date: 30 Sep 93 21:16:13 GMT
From: news-mail-gateway@ucsd.edu
Subject: Subscription help
To: info-hams@ucsd.edu

> Date: 30 Sep 93 14:29:08 GMT
> From: news-mail-gateway@ucsd.edu
> Subject: Subscription Help
> To: info-hams@ucsd.edu
>
>
>   I've tried to subscribe to this list by sending a request to
> INFO-HAMS-REQUEST@WSMR-SIMTEL20.ARMY.MIL. However, I don't get any mail
> from the list. The request doesn't bounce so I must be doing something else
> wrong. Can anyone help me out? Thanks.
>
> -- Brian, N1KLJ

Hi Brian.

Sorry to send this to the whole list, but as you can see from the totally included message above, I don't seem to get the sender's "from" address.

I get info-hams forum notes as a collection of posting from a listserver on ucsd.edu. The listserver collects several notes together until it reaches a certain size and then forwards it to a list of subscribers. One problem as you can see is that it tries to remove some of the superfluous routing information at the top of the note and seems to remove a little to much. If you want to subscribe to this list server you can send it the following commands in an email:

help	ask it to send you a list of instructions
index	ask for a list of available forums to subscribe to
list	ask for a list of forums you already subscribe to
subscribe kkk	subscribe to forum kkk
unsubscribe kkk	unsubscribe to forum kkk
...	(more command are available, ask for help)

On the otherhand, I'm sorta getting tired of getting all my postings with the "From" line and/or "reply-to" lines missing. Also, many times replies to postings are received ahead of the actual posting (maybe this is normal?).

Is there a site that can be used to directly subscribe to info-hams?
Like, info-hams-request@xxx.yyy.zzz (what is xxx.yyy.zzz??)?

Thanks,
km6wt, mont@ibmmail.com, mont@netcom.com

Date: 30 Sep 93 21:15:34 GMT
From: news-mail-gateway@ucsd.edu
Subject: WARNING: Updated Potential Major Flare Warning - 30 Sep 93
To: info-hams@ucsd.edu

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POTENTIAL MAJOR SOLAR FLARE WARNING

UPDATED: 21:00 UT, 30 SEPTEMBER

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PRIMARY CANDIDATE FOR HIGH SOLAR ACTIVITY : REGION 7590 (N12E37@30/2400Z)

ESTIMATED POTENTIAL MAGNITUDE OF ENERGETIC ACTIVITY OVER NEXT 7 DAYS						
DAYS	C5.0	M1.0	M5.0	X1.0	X5.0	>X12.0
1( )	80 %	40 %	20 %	10 %	5 %	1 %
3( ) G	85 %	50 %	30 %	15 %	10 %	1 %
5(-)PG	90 %	55 %	35 %	20 %	10 %	2 %
7(-)PG	90 %	55 %	35 %	20 %	10 %	2 %

DAYS = Number of days (from present) into the future (1, 3, 5 and 7 days).
(+) = Primary candidate region expected to GROW and DEVELOP.
( ) = Primary candidate region expected to STABILIZE or remain STABLE.
(-) = Primary candidate region expected to DECAY and SIMPLIFY.
(x)P = Possible proton and/or PCA threat. (x) may be one of (+), (-), or ( ).
(x)G = If a favorable major flare develops, a moderate to high probability
       exists that the event may be geoeffective.
xx % = Probability of activity equalling or exceeding the given x-ray class
       sometime over the next number of DAYS.
WLT = Data not applicable due to the West Limb Transit of the target region.

The above chart should be used as a guide only. It represents anticipated

levels of activity based on current projections of region development. Actual conditions may, of course, differ from these projections.

SYNOPSIS:

Region 7590 has remained fairly stable over the last couple of days. The most dynamic area is the trailer spot complex, which has exhibited minor growth over the last 24 hours, but has not shown much in the way of activity. Magnetic shear around the large leader spot which formerly contained a delta, is not very substantial. Transverse fields appear to be in a fairly stable orientation, except for perhaps small areas near the inversion line within the trailer spot complex. Region 7590 could produce isolated minor M-class flares. Unless new flux perturbs the current orientation of the group, there only appears to be an outside chance for an isolated major flare.

This warning will remain active until 09 October when it will be allowed to expire. Updates will be posted, as necessary.

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Date: 30 Sep 93 21:02:33 GMT
From: news-mail-gateway@ucsd.edu
Subject: Weekly Solar Terrestrial Forecast & Review for 01 October
To: info-hams@ucsd.edu

--- SOLAR TERRESTRIAL FORECAST AND REVIEW ---
October 01 to October 10, 1993

Report Released by Solar Terrestrial Dispatch
P.O. Box 357, Stirling, Alberta, Canada
T0K 2E0
Accessible BBS System: (403) 756-3008

!!*!*!*!*!* NOTE *!*!*!*!*!*!*

Version 2.00b of our Professional Dynamic Auroral Oval Simulator is now available. Completely rewritten, this software now produces numerous types of map projections centered on any geographical location, including OBLIQUE AZIMUTHAL EQUIDISTANT maps where radio signal paths are projected as straight lines. Precise DMSP Satellite Observations of Auroral Activity characteristics are also plottable for any hour of any day from December 1983 to 1992, making this the most extensive and contiguous

database of auroral activity observations presently available. Valuable for radio communicators, aurora photographers, and astronomers. The software is now Windows 3.x compatible and will operate under either Mouse or Keyboard control. Many additional features are also included. Contact Oler@Rho.Uleth.CA, or COler@Solar.Stanford.Edu for more information or call our computer BBS at (403) 756-3008. A recorded message containing additional information is also available at: (403) 756-2386.

!!*!*!*!*!* NOTE *!*!*!*!*!*!*

SOLAR AND GEOPHYSICAL ACTIVITY FORECASTS AT A GLANCE

10-DAY SOLAR/RADIO/MAGNETIC/AURORAL ACTIVITY OUTLOOK

	10.7 cm	HF Propagation					+/-	CON	SID				AU.BKSR			DX	Mag	Aurora		
	SolrFlx	LO	MI	HI	PO	SWF	%MUF	%	ENH	LO	MI	HI	LO	MI	HI	%	K Ap	LO	MI	HI
01	120	G	G	P	P	40	-20	70	35	NA	NA	NA	02	25	35	30	4 22	NV	NV	MO
02	120	G	G	P	P	40	-15	70	35	NA	NA	NA	01	15	25	30	3 20	NV	NV	MO
03	120	G	G	F	F	40	-10	70	35	NA	NA	NA	01	10	20	30	3 15	NV	NV	MO
04	120	G	G	F	F	40	-10	70	35	NA	NA	NA	01	05	15	35	2 12	NV	NV	LO
05	120	G	G	F	F	40	-05	70	35	NA	NA	NA	01	05	15	35	2 10	NV	NV	LO
06	120	G	G	F	F	40	-05	65	35	NA	NA	NA	02	10	20	35	2 10	NV	NV	LO
07	120	G	G	F	F	40	-05	65	35	NA	NA	NA	02	10	20	35	2 10	NV	NV	LO
08	117	G	G	F	F	40	-05	65	35	NA	NA	NA	02	10	20	35	2 10	NV	NV	LO
09	115	G	G	P	P	40	-10	65	35	NA	NA	NA	05	20	30	30	4 18	NV	LO	MO
10	110	G	P	VP	VP	30	-40	65	30	NA	NA	NA	10	40	50	25	6 40	NV	MO	HI

DEFINITIONS:

Date (day only)
10.7 cm SOLaR radio FLuX forecast
HF Propagation Conditions for LOw, MIddle, HIgh, and POlar areas (see below)
HF Short Wave Fade Probability (in %)
HF Maximum Usable Frequency in +/- percent above seasonal normals.
HF Prediction CONfidence Level (in %)
VHF Sudden Ionospheric ENHancement Probs (in %), weighted for low-mid lats
PROBability of "s"poradic E (Es) during the UT day for low, mid and high lats
VHF AUroral BacKScatteR Probs (in %) for LOw, MIddle and HIgh Latitudes
VHF Overall Global DX Potential (in %) - weighted for Low and Middle latitudes
Geomagnetic Activity Kp Index (peak value - see below)
GeoMAGnetic Activity Ap Index (peak value - see below)
AURORAl Activity for LOw, MIddle and HIgh Latitudes (see below)

HF Prop. Quality rated as: EG=Extremely Good, VG=Very Good, G=Good, F=Fair, P=Poor, VP=Very Poor, EP=Extremely Poor.

Probability of Sporadic E (Es) for the various latitudes is given in percent.
Kp Planetary Index rated: 0=V.Quiet, 1=Quiet, 2=Unstld, 3=Active, 4=V.Active,
   5=Minor Storm, 6=Major Storm, 7=Maj-Sev Storm, 8=Severe Storm, 9=V.Severe.
Ap Planetary Index rated: 0-7=Quiet, 8-16=Unstld, 17-29=Active,
   30-49=Minor Storm, 50-99=Major Storm, Severe Storm >=100.
Auroral Activity rated: NV=Not Visible, LO=Low, MO=Moderate, HI=High,
   VH=Very High.

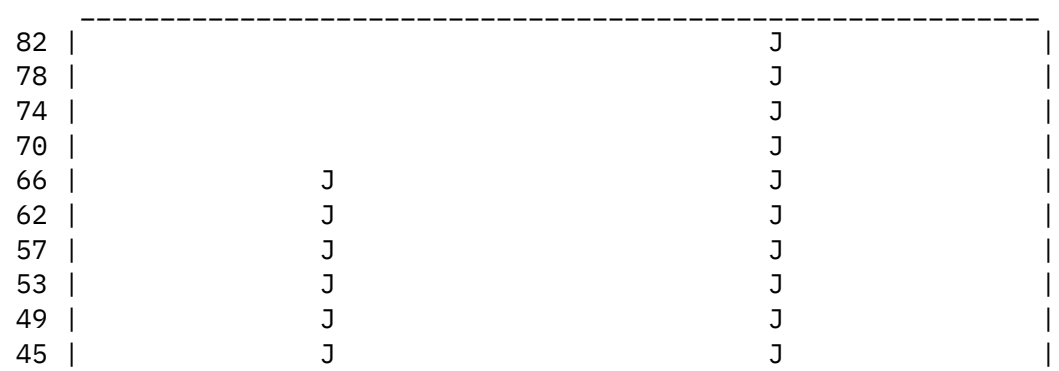
PEAK PLANETARY 10-DAY GEOMAGNETIC ACTIVITY OUTLOOK (01 OCT - 10 OCT)

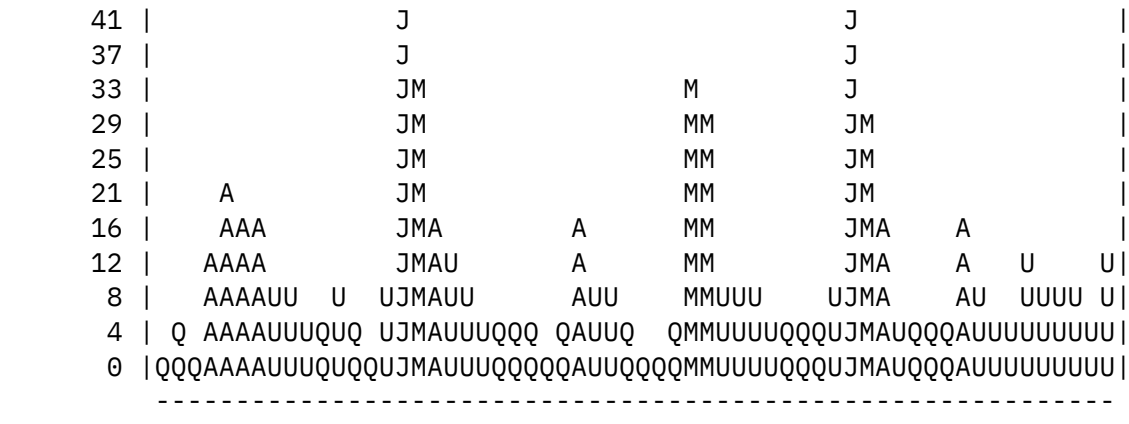
Geomagnetic Field Conditions	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Anomaly Intensity
	Given in 8-hour UT intervals										
EXTREMELY SEVERE											HIGH
VERY SEVERE STORM											HIGH
SEVERE STORM											MODERATE
MAJOR STORM										*	LOW - MOD.
MINOR STORM										***	LOW
VERY ACTIVE	**	*							*	***	NONE
ACTIVE	***	***	**						**	***	NONE
UNSETTLED	***	***	***	***	**	**	*	*	***	***	NONE
QUIET	***	***	***	***	***	***	***	***	***	***	NONE
VERY QUIET	***	***	***	***	***	***	***	***	***	***	NONE

CONFIDENCE LEVEL: 70%

NOTES:
Predicted geomagnetic activity is based heavily on recurrent phenomena. Transient energetic solar events cannot be predicted reliably over periods in excess of several days. Hence, there may be some deviations from the predictions due to the unpredictable transient solar component.

60-DAY GRAPHICAL ANALYSIS OF GEOMAGNETIC ACTIVITY

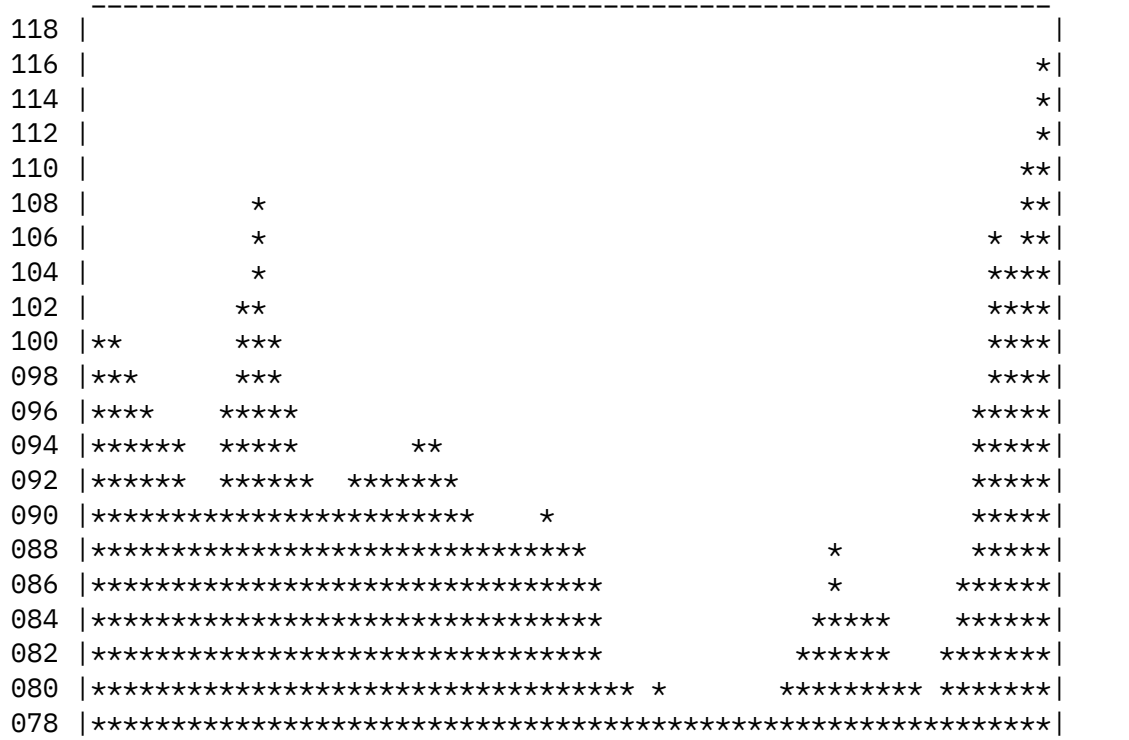


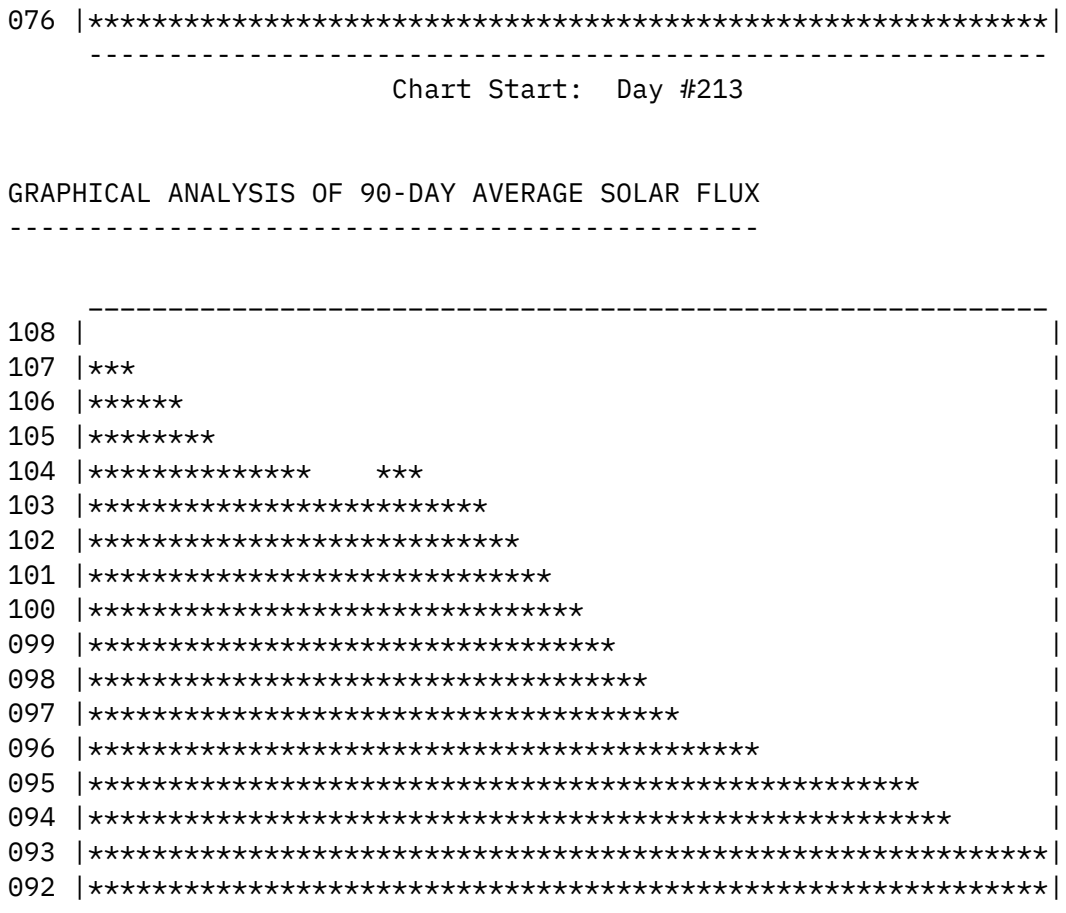


NOTES:

This graph is determined by plotting the greater of either the planetary A-index or the Boulder A-index. Graph lines are labelled according to the severity of the activity which occurred on each day. The left-hand column represents the associated A-Index for that day.
Q = Quiet, U = Unsettled, A = Active, M = Minor Storm,
J = Major Storm, and S = Severe Storm.

CUMULATIVE GRAPHICAL CHART OF THE 10.7 CM SOLAR RADIO FLUX



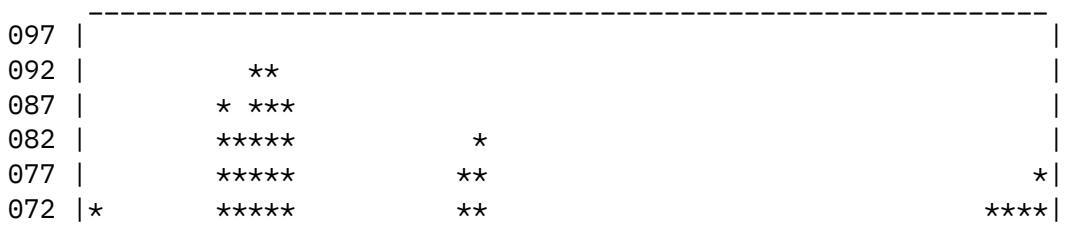


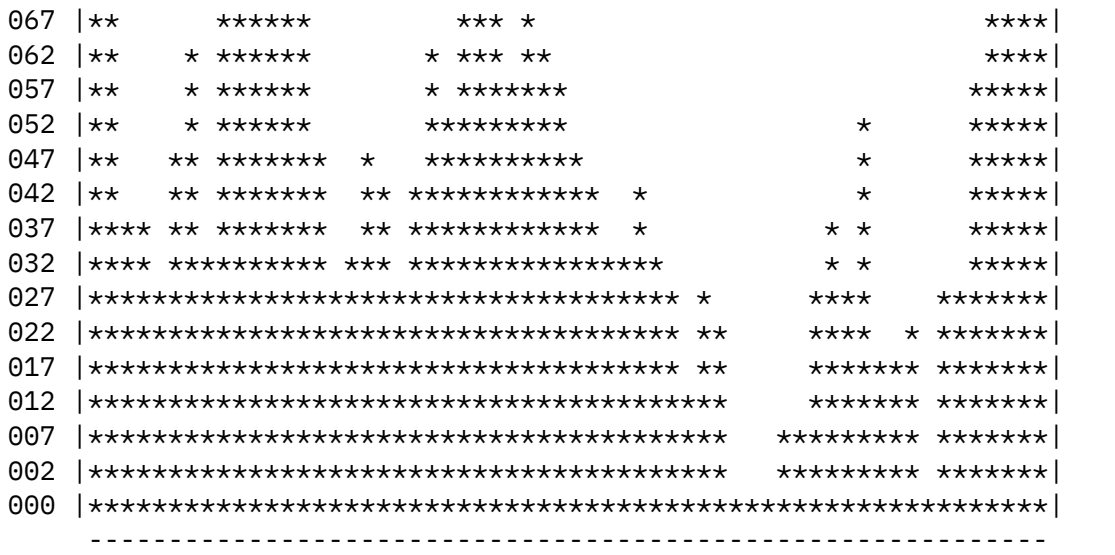
GRAPHICAL ANALYSIS OF 90-DAY AVERAGE SOLAR FLUX

NOTES:

The 10.7 cm solar radio flux is plotted from data reported by the Penticton Radio Observatory (formerly the ARO from Ottawa). High solar flux levels denote higher levels of activity and a greater number of sunspot groups on the Sun. The 90-day mean solar flux graph is charted from the 90-day mean of the 10.7 cm solar radio flux.

CUMULATIVE GRAPHICAL CHART OF SUNSPOT NUMBERS





NOTES:
The graphical chart of sunspot numbers is created from the daily sunspot number counts as reported by the SESC.

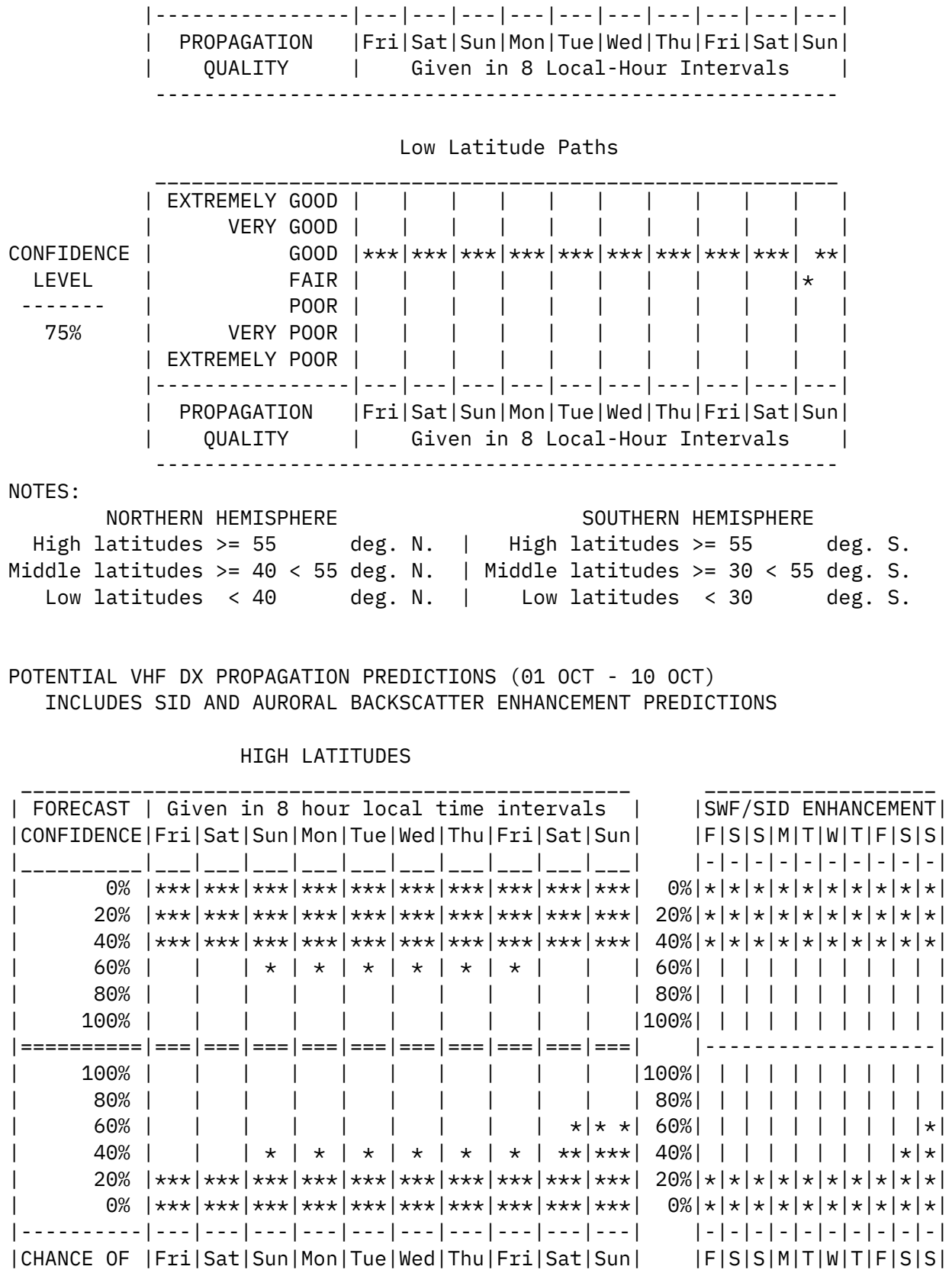
HF RADIO SIGNAL PROPAGATION PREDICTIONS (01 OCT - 10 OCT)

High Latitude Paths

CONFIDENCE LEVEL		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	EXTREMELY GOOD										
	VERY GOOD										
	GOOD										
	FAIR	*	**	***	***	***	***	***	***	**	
70%	POOR	*	*							*	
	VERY POOR										**
	EXTREMELY POOR									*	
PROPAGATION QUALITY		Given in 8 Local-Hour Intervals									

Middle Latitude Paths

CONFIDENCE LEVEL		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	EXTREMELY GOOD										
	VERY GOOD										
	GOOD	**	***	***	***	***	***	***	***	**	
	FAIR	*								*	*
70%	POOR										*
	VERY POOR									*	
	EXTREMELY POOR										



NOTES:

NORTHERN HEMISPHERE	SOUTHERN HEMISPHERE
High latitudes >= 55 deg. N.	High latitudes >= 55 deg. S.
Middle latitudes >= 40 < 55 deg. N.	Middle latitudes >= 30 < 55 deg. S.
Low latitudes < 40 deg. N.	Low latitudes < 30 deg. S.

POTENTIAL VHF DX PROPAGATION PREDICTIONS (01 OCT - 10 OCT)
INCLUDES SID AND AURORAL BACKSCATTER ENHANCEMENT PREDICTIONS

HIGH LATITUDES

FORECAST CONFIDENCE	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT									
	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%	*	*	*	*	*	*	*	*	*	*
60%			*	*	*	*	*	*			60%									
80%											80%									
100%											100%									
100%											100%									
80%											80%									
60%									*	* *	60%									*
40%			*	*	*	*	*	*	**	***	40%								*	*
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
CHANCE OF	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S

CHANCE OF VHF DX	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT									
	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%	*	*	*	*	*	*	*	*	*	*
60%	***	***	***	***	***	***	***	***	**		60%										
80%											80%										
100%											100%										
100%											100%										
80%											80%										
60%											60%										
40%	*	*	**	**	**	**	**	**	**	* *	40%										*
20%	***	***	***	***	***	***	***	***	***	***	20%									*	*
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
CHANCE OF VHF DX	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
	Given in 8 hour local time intervals											AURORAL BACKSCATTER									

MIDDLE LATITUDES

CHANCE OF VHF DX	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT									
	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%	*	*	*	*	*	*	*	*	*	*
60%	***	***	***	***	***	***	***	***	***	* *	60%	*	*	*	*	*	*	*	*	*	*
80%	***	***	***	***	***	***	***	***	***	***	80%										
100%											100%										
100%											100%										
80%											80%										
60%											60%										
40%	*	*	*	*	*	*	*	*	*	*	40%										
20%	***	***	***	***	***	***	***	***	***	***	20%										*
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
CHANCE OF VHF DX	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
	Given in 8 hour local time intervals											AURORAL BACKSCATTER									

LOW LATITUDES

CHANCE OF VHF DX	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT									
	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%	*	*	*	*	*	*	*	*	*	*
60%	***	***	***	***	***	***	***	***	***	* *	60%										
80%											80%										
100%											100%										
100%											100%										
80%											80%										
60%	*	*	*	*	*	*	*	*	*		60%										
40%	***	***	***	***	***	***	***	***	***	***	40%										
20%	***	***	***	***	***	***	***	***	***	***	20%										*
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
CHANCE OF VHF DX	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
	Given in 8 hour local time intervals											AURORAL BACKSCATTER									

|_____|_____|_____|

NOTES:

These VHF DX prediction charts are defined for the 30 MHz to 220 MHz bands. They are based primarily on phenomena which can affect VHF DX propagation globally. They should be used only as a guide to potential DX conditions on VHF bands. Latitudinal boundaries are the same as those for the HF predictions charts.

AURORAL ACTIVITY PREDICTIONS (01 OCT - 10 OCT)

High Latitude Locations

CONFIDENCE LEVEL											
	EXTREMELY HIGH										
	VERY HIGH										
	HIGH									***	***
-------	MODERATE	*							**	***	***
65%	LOW	***	***	*	**	**	***	***	***	***	***
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***
	AURORAL INTENSITY	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
		Eve.Twilight/Midnight/Morn.Twilight									

Middle Latitude Locations

CONFIDENCE LEVEL											
	EXTREMELY HIGH										
	VERY HIGH										
	HIGH										
-------	MODERATE									***	***
70%	LOW	*							**	***	***
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***
	AURORAL INTENSITY	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
		Eve.Twilight/Midnight/Morn.Twilight									

Low Latitude Locations

CONFIDENCE LEVEL											
	EXTREMELY HIGH										
	VERY HIGH										
	HIGH										
-------	MODERATE										
80%	LOW								*	***	
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***
	AURORAL	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun

| INTENSITY | Eve.Twilight/Midnight/Morn.Twilight |

NOTE:
     Version 2.00b of our Professional Dynamic Auroral Oval Simulation Software Package is now available. This professional software is particularly valuable to radio communicators, aurora photographers, educators, and astronomers. For more information regarding this software, contact: "Oler@Rho.Uleth.CA", or "COler@Solar.Stanford.Edu".

     For more information regarding these charts, send a request for the document, "Understanding Solar Terrestrial Reports" to: "Oler@Rho.Uleth.Ca" or to: "COler@Solar.Stanford.Edu". This document, as well as others and related data/forecasts exist on the STD BBS at: (403) 756-3008.

** End of Report **

End of Info-Hams Digest V93 #1159
****